

CLAIMS

1. A media sheet for color electrophotographic printing, comprising:
 - a) base stock having a first side and a second opposing side;
 - 5 b) base coating layers coated directly on the first side and the second side, the base coating layers including inorganic pigments, a binder, and a discharge control agent; and
 - c) receiving layers coated directly on the base coating layers, the receiving layers including inorganic pigments, hollow particle pigments, and a discharge control agent.
- 10 2. A media sheet as in claim 1, wherein the base stock is selected from the group consisting of woody paper, synthetic paper, and recycled paper.
- 15 3. A media sheet as in claim 1, wherein the base stock is a polymeric film.
4. A media sheet as in claim 1, wherein the base stock has an internal bonding strength from 170 to 500 J/m²
- 20 5. A media sheet as in claim 1, wherein at least one of the base coating layers includes, by weight, 100 parts inorganic pigments, from 1 to 15 parts binder, and from 1 to 20 parts discharge control agent.
6. A media sheet as in claim 1, wherein at least one of the receiving layers includes, by weight, 100 parts inorganic pigments, from 5 to 20 parts hollow polymer pigments, and from 1 to 20 parts discharge control agent.
- 25 7. A media sheet as in claim 1, wherein the inorganic pigments of the base coating layers and the receiving layers are particulates independently
- 30 selected from the group consisting of titanium dioxide, hydrated alumina, calcium carbonate, barium sulfate, silica, clay, and zinc oxide.

8. A media sheet as in claim 7, wherein the inorganic pigments of the base coating layers are calcium carbonate particulates.

5 9. A media sheet as in claim 7, wherein the inorganic pigments of the receiving layers are calcium carbonate particulates.

10 10. A media sheet as in claim 1, wherein the inorganic pigments of the receiving coating layers are of a smaller particle size than the inorganic pigments of the base coating layers.

11. A media sheet as in claim 10, wherein the inorganic pigments of the base coating layers have a mean size from 0.2 μm to 1.5 μm .

15 12. A media sheet as in claim 10, wherein the inorganic pigments of the receiving layers have a mean size from 0.1 μm to 0.5 μm .

20 13. A media sheet as in claim 1, wherein the inorganic pigments of the receiving layer or the base coating layer has an index of particle size distribution from 1.5 to 6.

14. A media sheet as in claim 6, wherein the receiving layers further includes from 0.1 to 8 parts by weight binder.

25 15. A media sheet as in claim 1, wherein at least one of the discharge control agent of the base coating layer and the discharge control agent of the receiving layer is a polyelectrolyte.

30 16. A media sheet as in claim 15, wherein the polyelectrolyte has a polar side group.

17. A media sheet as in claim 16, wherein the polyelectrolyte having the polar side group is a sulfonated polystyrene.

18. A media sheet as in claim 17, wherein the sulfonated polystyrene is a sodium salt of sulfonated polystyrene.

5 19. A media sheet as in claim 15, wherein the polyelectrolyte has a weight average molecular weight from 70,000 Mw to 1,000,000 Mw.

20. A media sheet as in claim 1, wherein both the discharge control agent of the base coating layer and the discharge control agent of the receiving layer is
10 a sulfonated polystyrene.

21. A media sheet as in claim 1, wherein each of base coating layers are applied at a coating weight from 5 to 30 g/m².

15 22. A media sheet as in claim 1, wherein each of the receiving layers is applied at a coating weight from 5 to 30 g/m².

23. A media sheet as in claim 1, wherein each of the base coating layers and the receiving layers are from about 10 µm to 15 µm in thickness.

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24. A media sheet for color electrophotographic printing, comprising:

a) base stock having a first side and a second opposing side;

b) base coating layers coated directly on the first side and the second side, the base coating layers including inorganic pigments, a binder, and a charge
25 control agent; and

c) receiving layers coated directly on the base coating layers, the receiving layers including inorganic pigments, a binder, and a sodium salt of a sulfonated polystyrene discharge control agent.

30 25. A media sheet as in claim 24, wherein the binder of the receiving layers includes hollow particle pigments.

26. A media sheet as in claim 24, wherein the discharge control agent has a weight average molecular weight from 70,000 Mw to 1,000,000 Mw.

5 27. A media sheet as in claim 24, wherein the inorganic pigments of the receiving coating layers are of a smaller particle size than the inorganic pigments of the base coating layers.

28. A media sheet as in claim 27, wherein the inorganic pigments of the base coating layers have a mean size from 0.2 μm to 1.5 μm .

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29. A media sheet as in claim 27, wherein the inorganic pigments of the receiving layers have a mean size from 0.1 μm to 0.5 μm .

30. A media sheet as in claim 24, wherein the inorganic pigments of the receiving layer or the base coating layer has an index of particle size distribution from 1.5 to 6.

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